

## FLOW CELLS UTILIZING PHOTOMETRIC TECHNIQUES

Abstract of the Disclosure

5 A flow cell for transporting fluid in a radiant  
energy field includes a cell structure having a tube  
extending therethrough including a radiant energy  
blocking portion integral therewith. In a particular  
embodiment, the cell structure includes one or more end  
caps having a protrusion extending therefrom, wherein the  
10 protrusion may be inserted into the tube to create a  
fluid seal, the end caps including open channels for  
transporting fluid and radiant energy therethrough, and  
the tube in the cell structure includes an efficient  
radiant energy transmission lining that is spaced from  
15 the end cap protrusions, thereby forming a gap volume in  
the flow cell open channel, which gap volume may be  
calibrated such that radiant energy losses may be  
standardized in respective flow cells transporting fluids  
having various indexes of refraction.

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